

DIVISION 15 - MECHANICAL

SECTION 15000 - GENERAL

PART 1 - GENERAL

1.01 - DESCRIPTION

- A. The General Conditions and Division 1 through Division 16 as set forth in these specifications are hereby incorporated into and shall become a part of the specifications for work under this title, insofar as they apply hereto.
- B. Furnish material, labor, tools, accessories and equipment to complete and leave ready for operation the sheet metal system for this project as described in these specifications and as shown on the drawings, or as required.

1.02 - LICENSES

- A. The installation of the sheet metal work shall be made by Contractors and craftsmen licensed by the Governing Authorities.

1.03 - CODES, REGULATIONS AND STANDARDS

- A. Unless otherwise noted, the following latest enforced Edition shall apply to this work:
 - Michigan State Building Code
 - Life Safety Code
 - National Fire Protection Association
 - OSHA Requirements
 - EPA Requirements

1.04 - SCHEDULING

- A. All work will be performed outside an existing facility that will be occupied. The facility must remain in operation at all times. Therefore, all work must be carefully coordinated and scheduled with the EPA.

1.05 - COORDINATION

- A. The specifications shall be carefully studied during the course of bidding and construction. Any errors, omissions or discrepancies encountered shall be referred immediately to the Engineer for interpretation or correction, so that misunderstandings at a later date may

be avoided. Having ductwork and fittings fabricated and delivered in advance of making actual measurements shall not be sufficient cause to avoid making minor changes as may be necessary to install ductwork.

- B. The Engineer shall reserve the right to make minor adjustment in locations of system components where he considers such adjustments desirable in the interest of presenting a better appearance where exposed. Any such changes shall be anticipated and requested sufficiently in advance as to not cause extra work, or unduly delay the work. Coordinate work in advance with all other trades and report immediately any difficulties which can be anticipated.
- C. Where any system components are so placed as to cause or contribute to a conflict, it shall be readjusted at the expense of the contractor causing such conflict. The Engineer's decision shall be final in regard to the arrangement of ductwork, etc., where conflict arises.
- D. Provide additional fittings, necessary drains and devices required to complete the installation, or for the proper operation of the system. Each Contractor shall exercise due and particular caution to determine that all parts of the work are made quickly and easily accessible.
- E. Should overlap of work among the trades become evident, this shall be called to the attention of the Engineer. In such event, none of the trades or their suppliers shall assume that he is relieved of the work which is specified under his branch until instructions in writing are received from the Engineer.

1.06 - SITE VISIT

- A. The contractor shall inspect the job site before bidding and take into account any unusual conditions or difficulty in construction in his bid. Any discrepancies between the contract documents and the job site shall be brought to the Engineer's attention before bids are due. Failure to visit the site shall not relieve the Contractor from any responsibility in the performance of this contract.

PART 3 - EXECUTION

3.01 - PROTECTION AND DAMAGE

- A. In addition to the provisions and stipulation of the General Conditions, each contractor and subcontractor shall provide various types of protection as follows:
 - 1. Protect finished floors from chips and cutting oil by the use of metal drip receiving pan and oil proof floor cover.
 - 2. Protect equipment and finished surfaces from welding and cutting splatters with baffles and splatter blankets.
 - 3. Protect equipment and finished surfaces from paint droppings, insulation adhesive and sizing droppings, etc. by use of drop cloths.
- B. All equipment shall be stored at the site with openings, bearings, etc., covered to exclude dust and moisture. All stock piled pipe shall be placed on dunnage and protected from weather and from entry of foreign material.
- C. Piping and construction openings and excavations required for Mechanical work shall be covered when work is not in progress as follows:
 - 1. Cap pipe openings with fittings or plugs.
 - 2. Cover wall and ceiling openings with plywood, or canvas covered framing.
 - 3. Cover floor openings and excavations with structural material of adequate strength to support traffic.
- D. The EPA's property and the property of other Contractors shall be scrupulously respected at all times (including damage from leaks). Provide drop cloths and visqueen or similar barriers where dust and debris is generated, to protect adjacent area.
- E. Contractor shall be held responsible for damage caused by his work or through neglect of his workmen. Repairing of damaged work shall be done by Contractor as directed by the EPA On-Site Representative. Cost of repairs shall be paid by Contractor.
- F. The EPA reserves the right to make emergency repairs as required to keep equipment in operation without voiding the Contractor's guarantee bond not relieving the contractor of his responsibilities during the bonding period.

END

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